10th Class 2020		
Math (Science)	Group-l	PAPER-II
Time: 20 Minutes	(Objective Type)	Max. Marks: 15

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1-
$$\frac{2x+1}{(x+1)(x-1)}$$
 is:

- (a) An improper fraction
- (b) An equation
- (c) A proper fraction √
- (d) Identity
- A line which has only one point in common with a 2circle is called:
 - (a) Sine of a circle
 - (b) Cosine of a circle
 - (c) Tangent of a circle √
 - (d) Secant of a circle
- The spread or scattering of observations in a data set is called:
 - (a) Average
- (b) Central tendency
- (c) Dispersion √ (d) Median
- The measure of the external angle of a regular hexagon is:
 - (a) $\frac{\pi}{2}$

(b) $\frac{\pi}{3} \sqrt{100}$ (d) $\frac{\pi}{6}$

(c) $\frac{\pi}{4}$

- Two linear factors of $x^2 15x + 56$ are: 5-
 - (a) (x-7) & (x+8) (b) (x+7) & (x-8)
 - (c) $(x-7) & (x-8) \sqrt{(d)} (x+7) & (x+8)$

the same	To be the state of		
6-	A collection of well-defined objects is called:		
	(a) Subset (b) Proper set		
	(c) Power set (d) Set 1/		
7-	The symbol for a triangle is denoted by:		
,	(a) ∠ (b) ∆ √		
	(c) T (d) O		
8-	In a proportion a:b::c:d, b and c are called:		
	(a) Means √ (b) Extremes		
	(c) Fourth proportional (d) Third proportional		
9-	A pair of chords of a circle subtending two congruent central angles is:		
	(a) Congruent √ (b) Incongruent		
	(c) Overlapping (d) Parallel		
10-	A ∪ (B ∩ C) is equal to:		
	(a) $(A \cup B) \cap (A \cup C) 1/(b) A \cap (B \cap C)$		
	(c) $(A \cap B) \cup (A \cap C)$ (d) $A \cup (B \cup C)$		
11-	The number of methods to solve a quadratic equation is:		
	(a) 1 (b) 2		
	(c) 3 1/ (d) 4		
12-	If $\frac{u}{v} = \frac{v}{w} = k$, then:		
	(a) $u = vk^2$ (b) $u = wk^2 $		
	(c) $u = w^2 k$ (d) $u = v^2 k$		
3-	A histogram is a set of adjacent:		
	(a) Squares (b) Rectangles √		
1	(c) Circles (d) Triangles		
4-	Cube roots of –1 are:		
	(a) $-1, -\omega, -\omega^2 \sqrt{(b)}, -1, \omega, -\omega^2$		
	(c) $-1, -\omega, \omega^2$ (d) $1, \omega, -\omega^2$		
5-	$\frac{1}{1+\sin\theta}+\frac{1}{1-\sin\theta}=$		
,			
	(a) $2 \sec^2 \theta $ (b) $2 \cos^2 \theta$		
	(c) $\sec^2 \theta$ (d) $\cos \theta$		